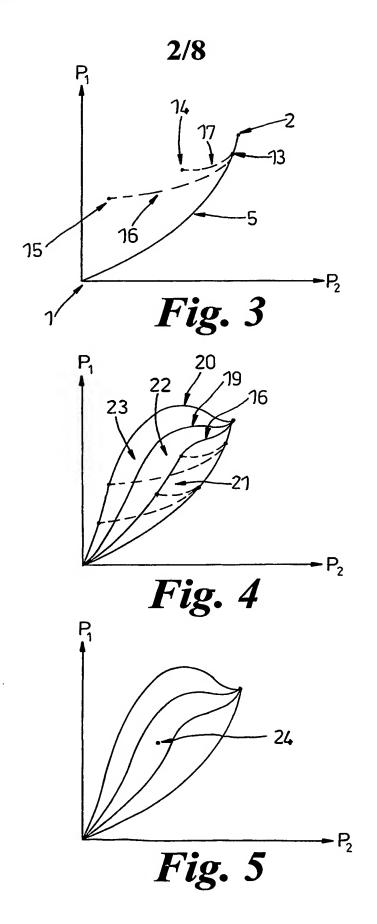


Fig. 2

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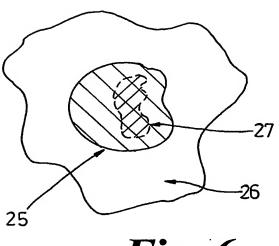
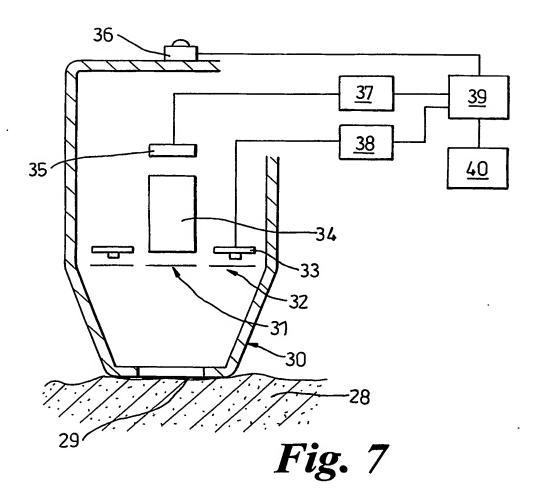


Fig. 6



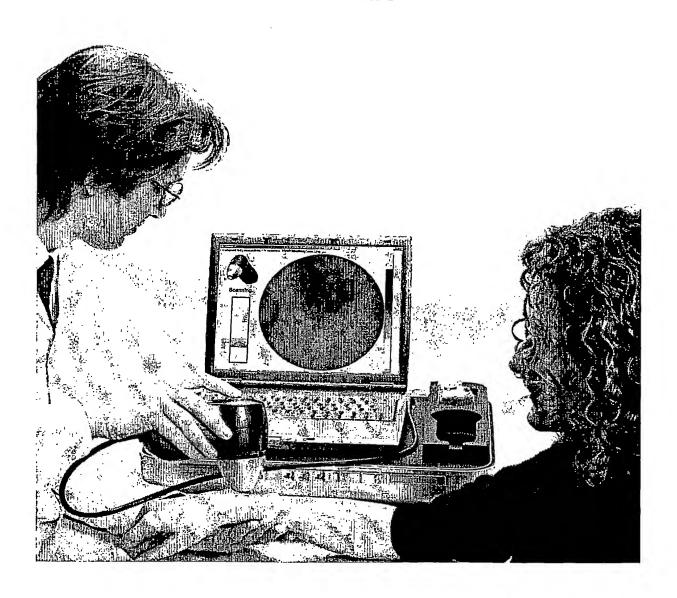


Fig. 8

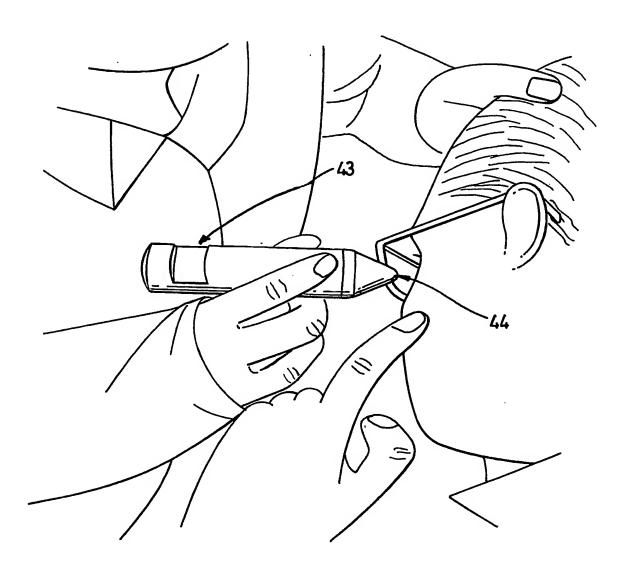


Fig. 9

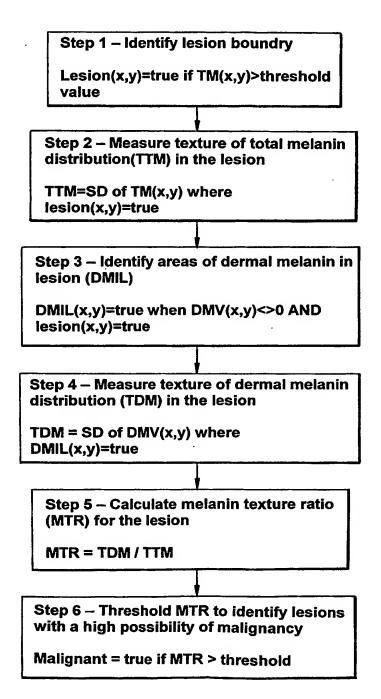
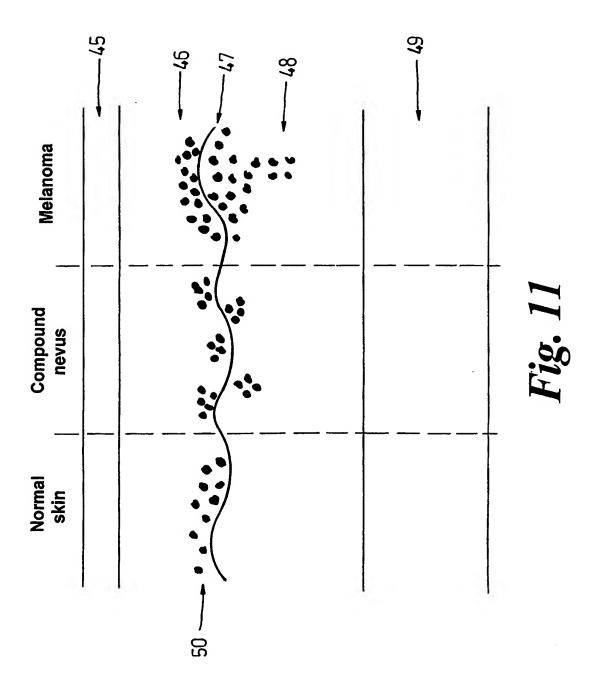


Fig. 10



Step 1. Take spectral measurements over an array of points across the skin.

Step 2. Calibrate each spectral measurement to eliminate effects due to variations in collagen concentration at that point, as described in GB9624003.1.

Step 3. Map each spectral measurement into a two dimensional colour space chosen so that variations in blood concentration in the tissue have no effect in that space.

Step 4. Using equation 1 plot a series of contours of increasing dermal melanin concentration at the papillary dermis depth, as shown in figure 5, in that space.

Step 5. Determine which contour is closest to the point represented by the calibrated spectral measurement. The dermal melanin concentration value of that contour is then used as an approximate value for fn(dermal melanin depth, dermal melanin concentration, epidermal melanin concentration).

Step 6. Make an array of the value of this function corresponding each measurement location.

Fig. 12